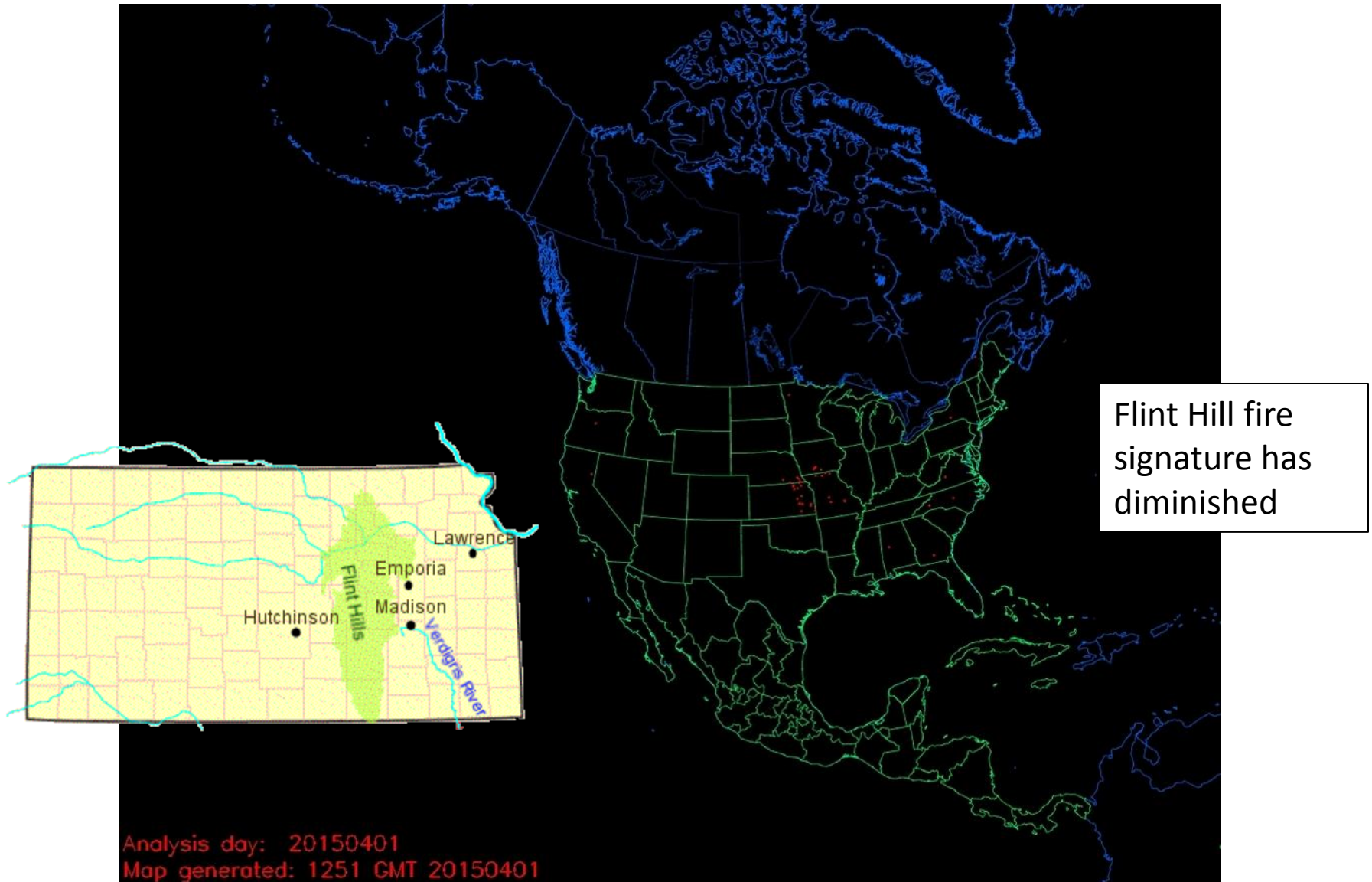


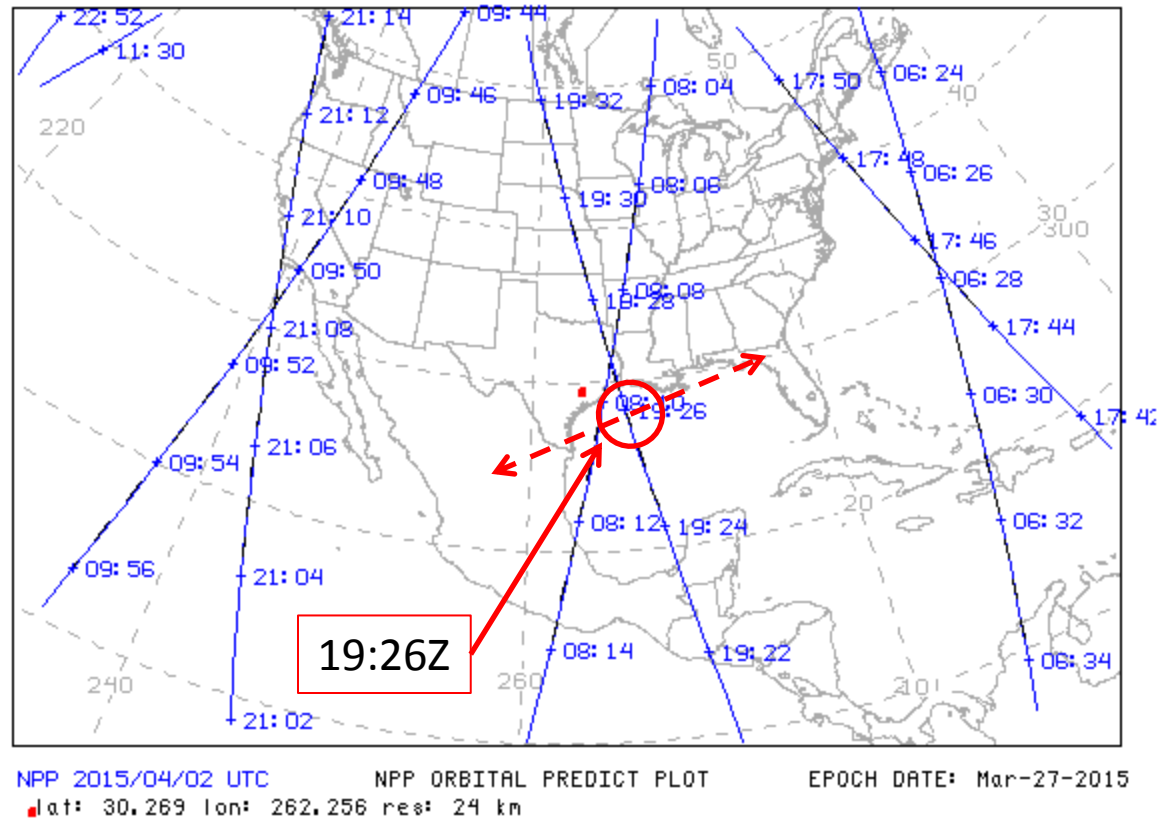
RAQMS 20150401 SONGNEX

54hr Forecast for 18Z April 02, 2015 Transit to Austin, TX



S-NPP (CrIS) overpass on 2015/04/02
NUCAPS CO₂, O₃, CO, CH₄ Validation Opportunity –**western swath**

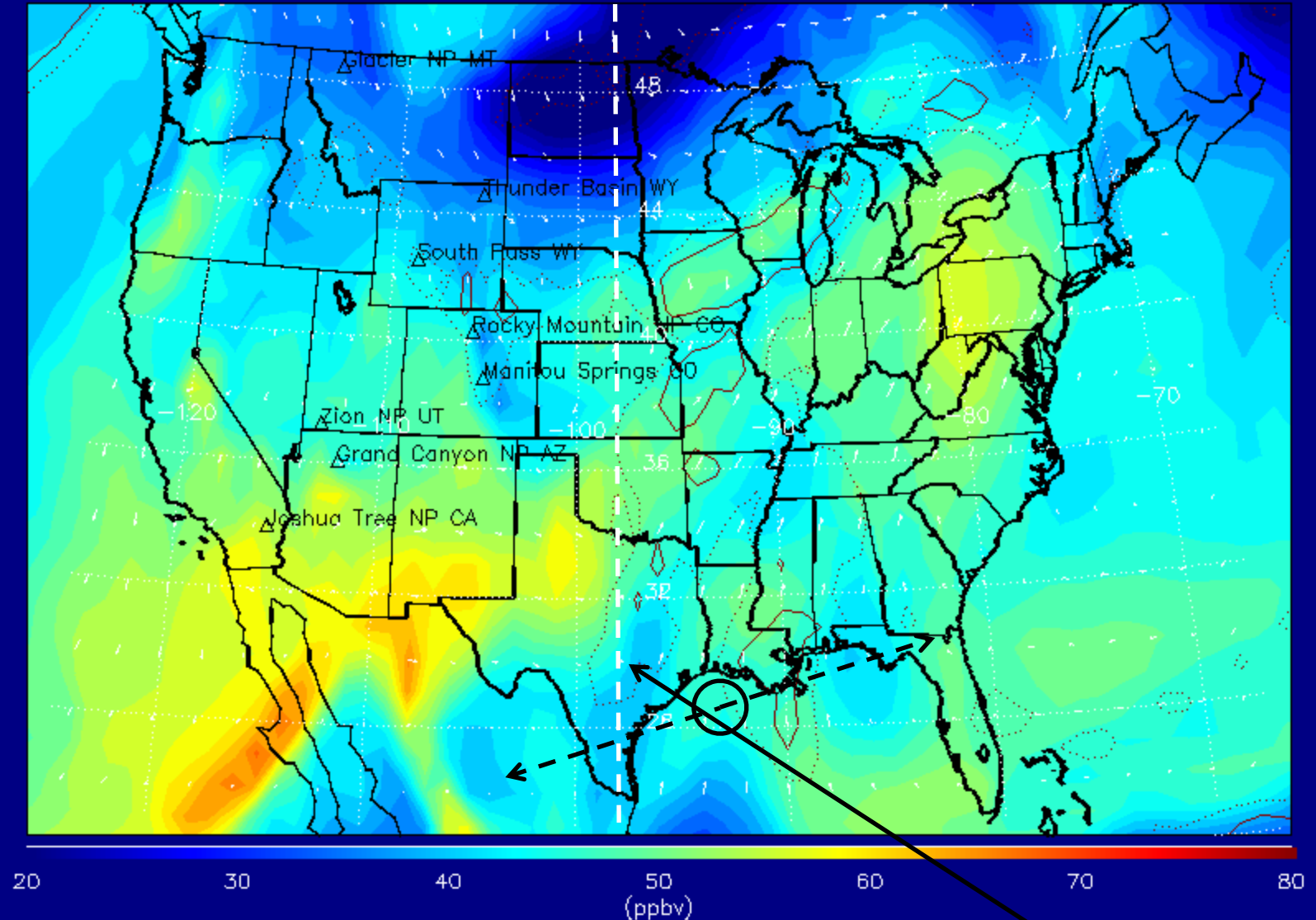
S-NPP overpass over Austin at 19:26Z (2:24pm Central)



Approximate swath width

01km AGL O₃ 18Z 20150402

(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CPCP=0.0662842 mm/hr



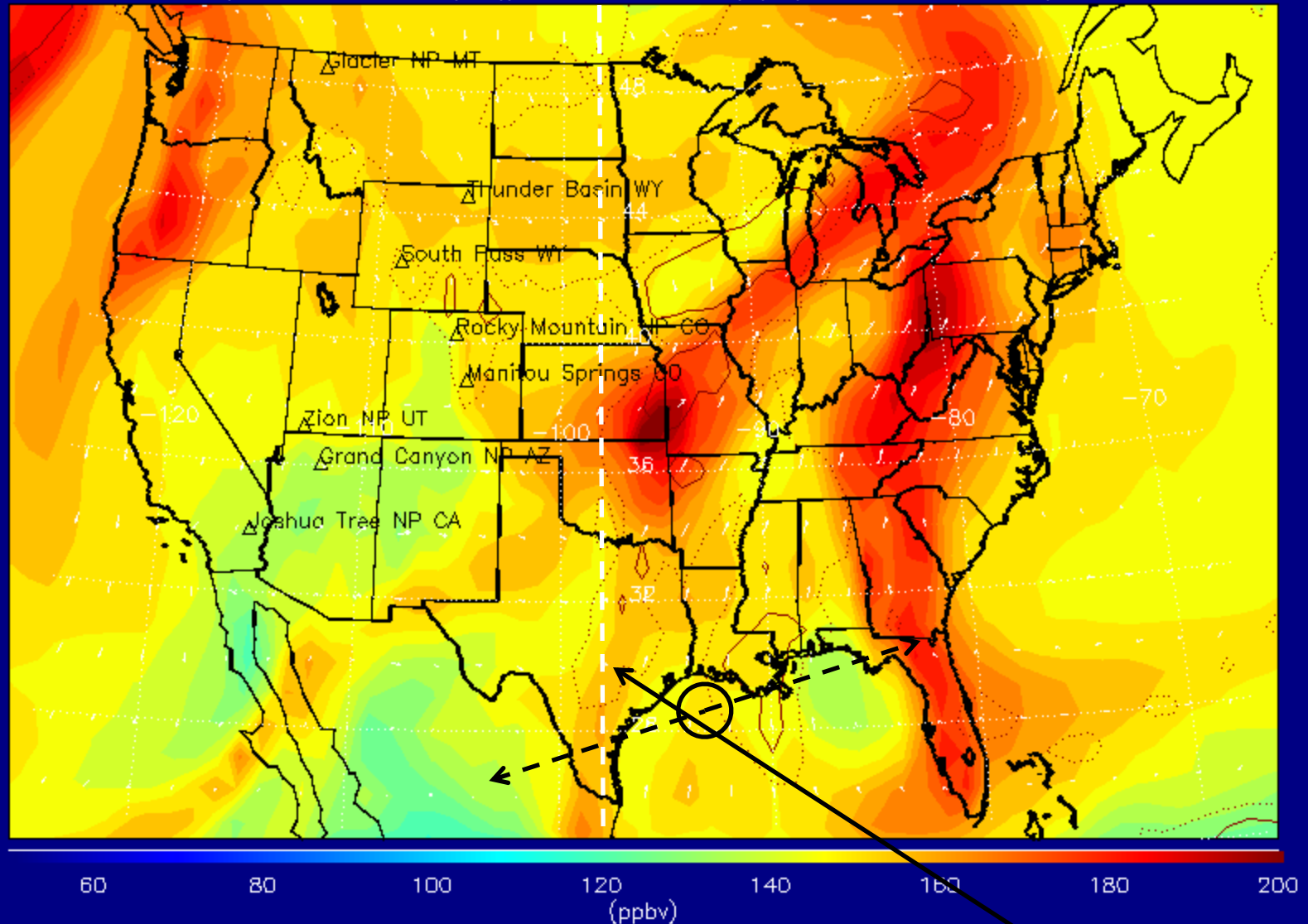
RAQMS₆ 54hr Fx Initialized 12Z 20150331

Austin, TX on western side of S-NPP swath

Approximate swath width

01km AGL CO 18Z 20150402

(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CFCP=0.0662842 mm/hr



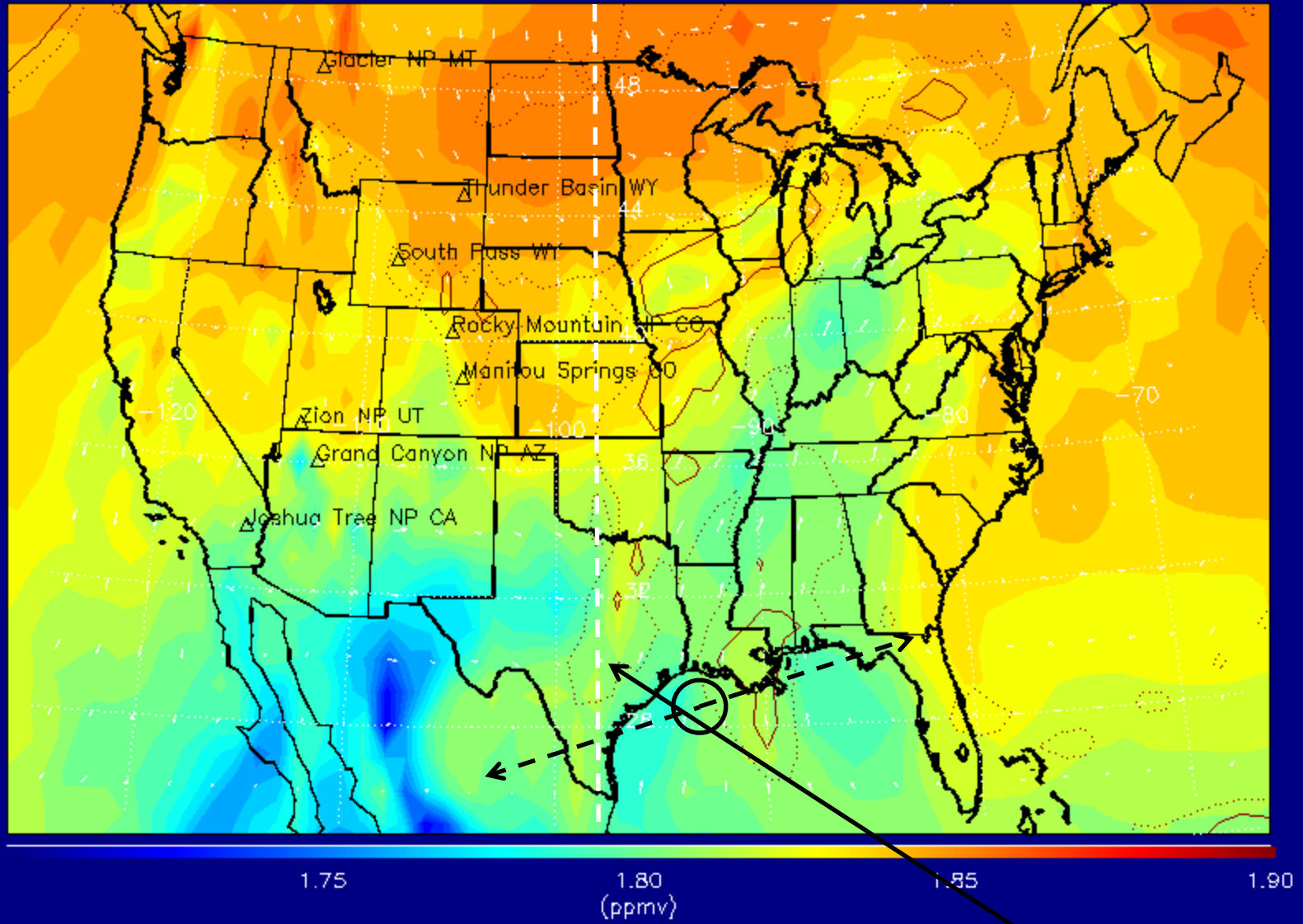
RAQMS₆ 54hr Fx Initialized 12Z 20150331

Austin, TX on western side of S-NPP swath

Approximate swath width

01km AGL CH₄ 18Z 20150402

(MSL Pressure Contoured (white)/95–75% Convective Precip (Red) 95% CFCP=0.0662842 mm/hr

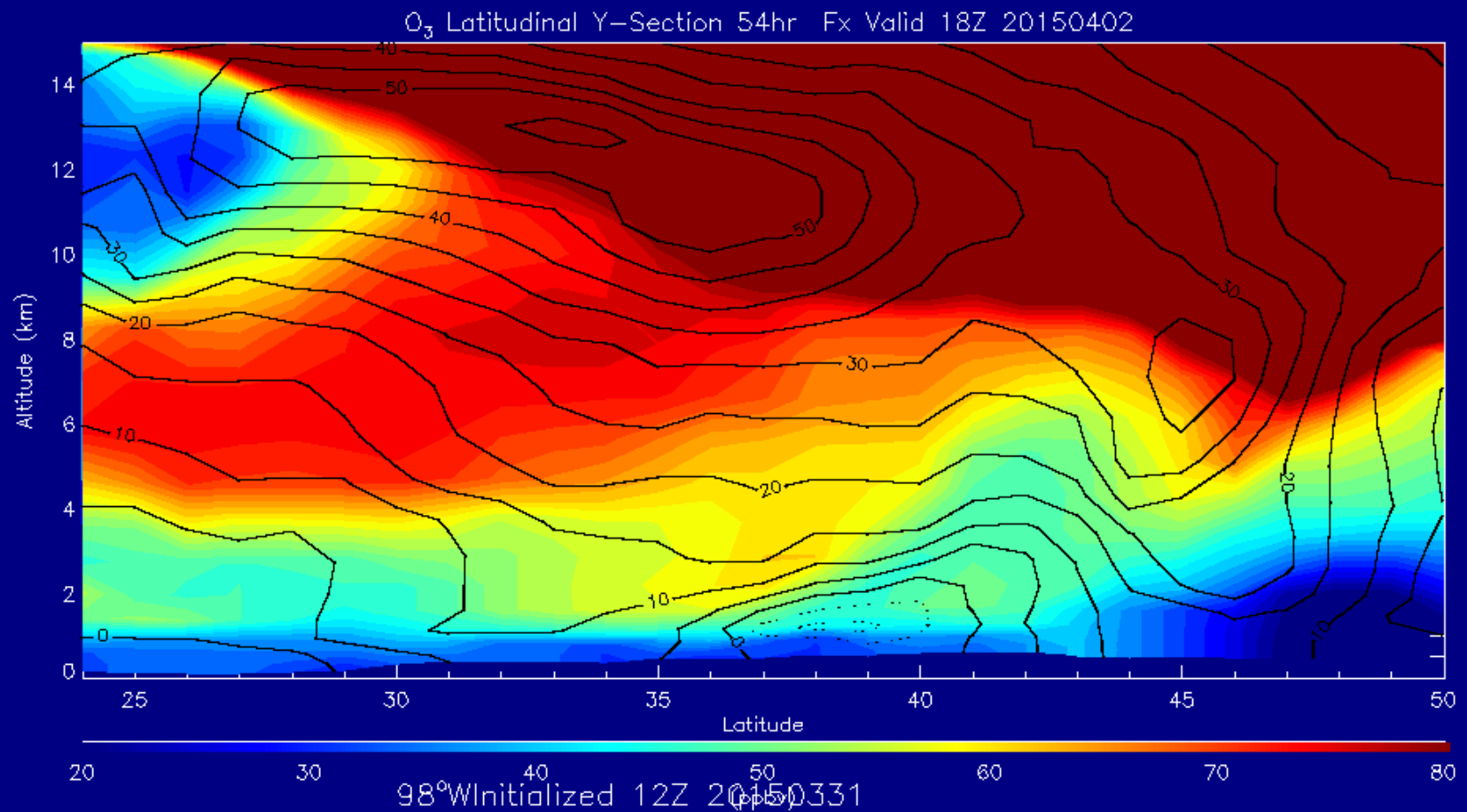


RAQMS₆ 54hr Fx Initialized 12Z 20150331

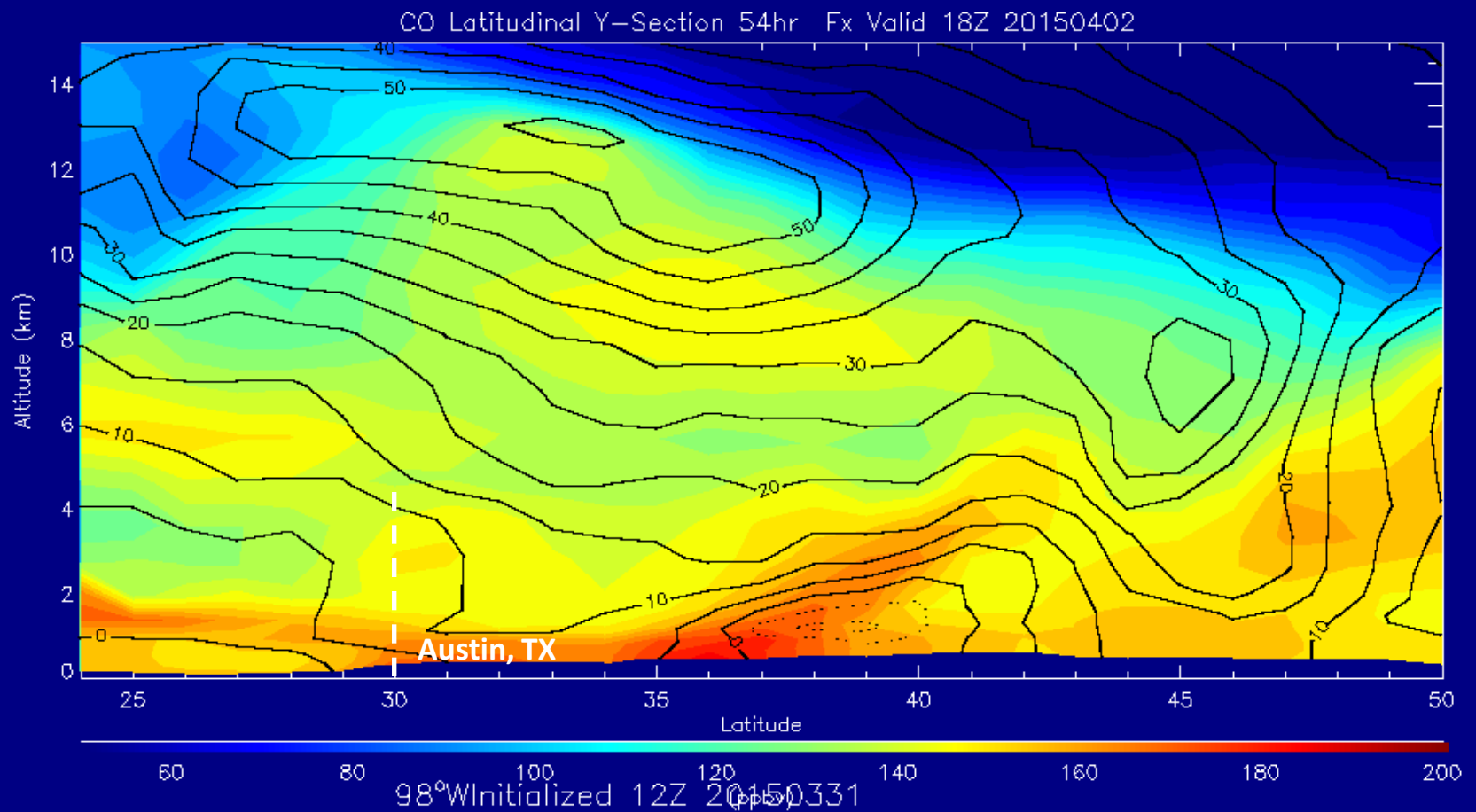
Austin, TX on western side of S-NPP swath

RAQMS surface CH₄ constrained with 1990 mixing ratio – introduces ~0.1ppmv low bias

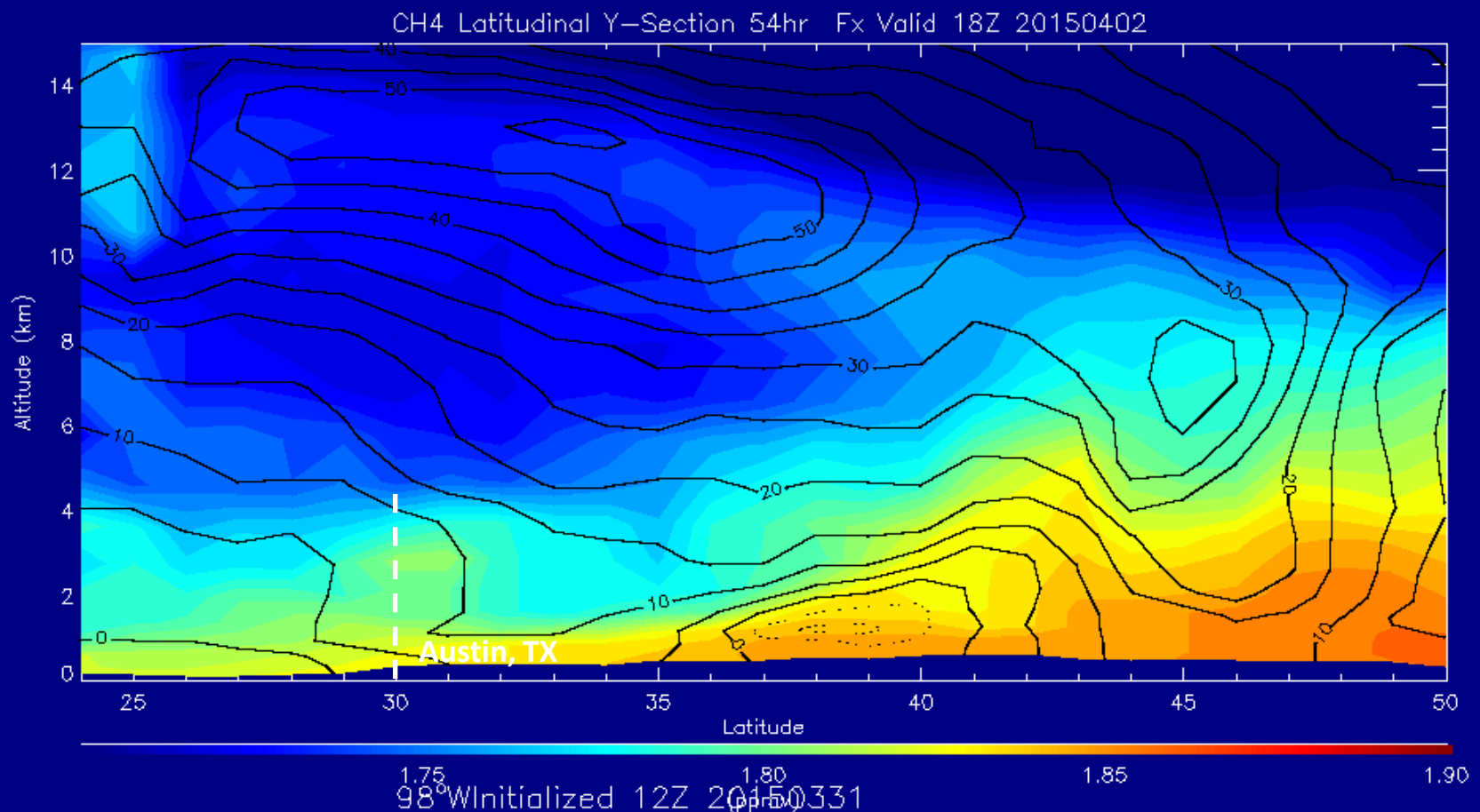
RAQMS 54hr FX O3 Cross-section at 98W
(Austin, TX)



RAQMS 54hr FX CO Cross-section at 98W (Austin, TX)



RAQMS 54hr FX CH₄ Cross-section at 98W (Austin, TX)



RAQMS surface CH₄ constrained with 1990 mixing ratio – introduces ~0.1ppmv low bias